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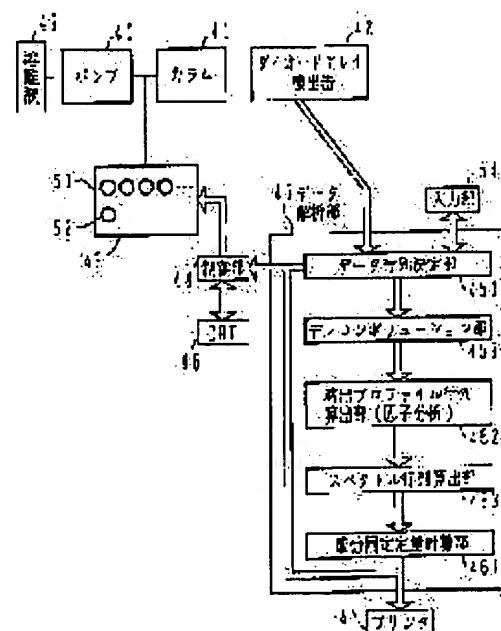
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(54) ANALYZING METHOD AND DATA PROCESSING APPARATUS FOR MULTI-CHANNEL CHROMATOGRAM

(57)Abstract:

PURPOSE: To decompose and analyze overlapping peaks at high precision by analyzing a multi-channel chromatogram by utilizing multi-variable analysis and deconvolution process.

CONSTITUTION: A multi-channel chromatogram of contained components' data obtained by sending an unknown sample 51 and a reference sample 52 to a column 41 and carrying out separation and detection 42 is sent to a data analyzing part 45, peaks to be separated and analyzed are assigned, the starting point and the finishing point of a period of the data matrix D are determined 451, and components having characteristic values are counted. Then, apparatus functions are set, the characteristic spectrum for a matrix (d) obtained by deconvolution process 458 of the matrix D is computed and converted into a matrix (y), the same processes are carried out again while the standard deviation being increased, and the finally determined matrix (d) is registered 462. The spectra-matrix X is computed as a line spectrum of an elution profile matrix (y) obtained by rectangularly rotating respective characteristic spectra and standardizing the surface area to be 1 and using the obtained extent, quantitative calculation 461 is carried out while using a spectra-matrix of the sample 52 as a reference.



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